

# What is Agro-Informatics?

AEC3012

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## Food and Agriculture Organization (FAO)

Agro-informatics connects information technology with the farm management, analysis and application of agricultural data to design more accurate and targeted agricultural interventions.

## Examples of The Use of New Technology in Agriculture

- satellite imagery
- remote sensing
- geographic information systems

Technology enables the transformation of data into actionable information.

# Benefits of Agro-Informatics

- Enhanced Decision Making: With real-time data on soil health, weather patterns, and crop growth, farmers can make informed decisions that maximize their yield.
- Resource Optimization: Agriculture informatics helps optimize the use of resources such as water, fertilizers, and pesticides, reducing waste and environmental impact.
- Precision Agriculture: Through GPS and remote sensing technologies, farmers can precisely target their interventions, minimizing costs and environmental harm.

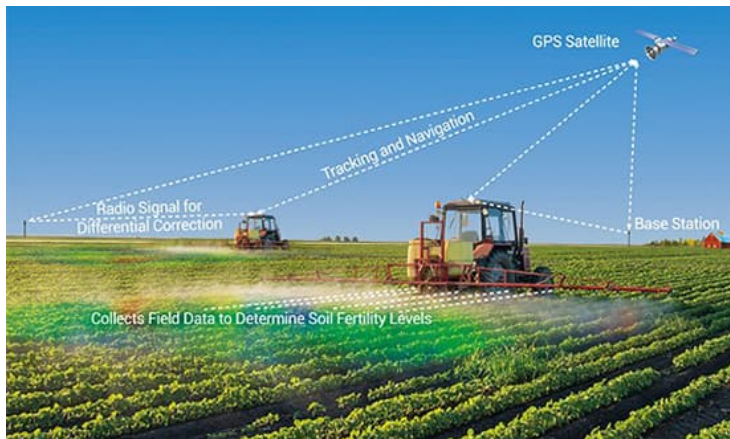
# Benefits of Agro-Informatics

- Early Disease Detection: Monitoring tools and data analysis enable the early detection of disease outbreaks, preventing their spread and minimizing losses.
- Supply Chain Efficiency: Informatics streamlines the supply chain, reducing post-harvest losses and ensuring fresher produce reaches consumers.

# Example of Agro-Informatics



# Example of Agro-Informatics



# Paragraphs of Text

Sed iaculis **dapibus gravida**. Morbi sed tortor erat, nec interdum arcu. Sed id lorem lectus. Quisque viverra augue id sem ornare non aliquam nibh tristique. Aenean in ligula nisl. Nulla sed tellus ipsum. Donec vestibulum ligula non lorem vulputate fermentum accumsan neque mollis.

*Sed diam enim, sagittis nec condimentum sit amet, ullamcorper sit amet libero. Aliquam vel dui orci, a porta odio.*  
— *Someone, somewhere...*

Nullam id suscipit ipsum. Aenean lobortis commodo sem, ut commodo leo gravida vitae. Pellentesque vehicula ante iaculis arcu pretium rutrum eget sit amet purus. Integer ornare nulla quis neque ultrices lobortis.

# Lists

## Bullet Points and Numbered Lists

- Lorem ipsum dolor sit amet, consectetur adipiscing elit
  - Aliquam blandit faucibus nisi, sit amet dapibus enim tempus
    - Lorem ipsum dolor sit amet, consectetur adipiscing elit
    - Nam cursus est eget velit posuere pellentesque
  - Nulla commodo, erat quis gravida posuere, elit lacus lobortis est, quis porttitor odio mauris at libero
- 
- 1 Nam cursus est eget velit posuere pellentesque
  - 2 Vestibulum faucibus velit a augue condimentum quis convallis nulla gravida



# Blocks of Highlighted Text

## Block Title

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Integer lectus nisl, ultricies in feugiat rutrum, porttitor sit amet augue.

## Example Block Title

Aliquam ut tortor mauris. Sed volutpat ante purus, quis accumsan.

## Alert Block Title

Pellentesque sed tellus purus. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos.

Suspendisse tincidunt sagittis gravida. Curabitur condimentum, enim sed venenatis rutrum, ipsum neque consectetur orci.

## Heading

- 1 Statement
- 2 Explanation
- 3 Example

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Integer lectus nisl, ultricies in feugiat rutrum, porttitor sit amet augue. Aliquam ut tortor mauris. Sed volutpat ante purus, quis accumsan dolor.

# Table

Subtitle

<b>Treatments</b>	<b>Response 1</b>	<b>Response 2</b>
Treatment 1	0.0003262	0.562
Treatment 2	0.0015681	0.910
Treatment 3	0.0009271	0.296

Table: Table caption

# Figure

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# Definitions & Examples

## Definition

A **prime number** is a number that has exactly two divisors.

## Example

- 2 is prime (two divisors: 1 and 2).
- 3 is prime (two divisors: 1 and 3).
- 4 is not prime (**three** divisors: 1, 2, and 4).

You can also use the theorem, lemma, proof and corollary environments.

# Theorem, Corollary & Proof

Theorem (Mass-energy equivalence)

$$E = mc^2$$

Corollary

$$x + y = y + x$$

Proof.

$$\omega + \phi = \epsilon$$



# Equation

$$\cos^3 \theta = \frac{1}{4} \cos \theta + \frac{3}{4} \cos 3\theta \quad (1)$$

## Example (Theorem Slide Code)

```
\begin{frame}  
  \frametitle{Theorem}  
  \begin{theorem}[Mass--energy equivalence]  
     $E = mc^2$   
  \end{theorem}  
\end{frame}
```



Slide without title.

# Citing References

An example of the `\cite` command to cite within the presentation:

This statement requires citation **[?, ?]**.

# References



John Smith (2022)

Publication title

*Journal Name* 12(3), 45 – 678.



Annabelle Kennedy (2023)

Publication title

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# The End

Questions? Comments?